

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

**Declaration and Power of Attorney**

As below named inventors, we hereby declare that:

Our residences, post office addresses and citizenships are as stated below next to each of our names.

We believe we are first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled **SYSTEM AND METHOD FOR AUTOMATED MULTIMEDIA CONTENT INDEXING AND RETRIEVAL**, the specification of which is attached hereto, which in part discloses and claims subject matter disclosed in earlier filed applications, U.S. Patent Application No. 09/353,192, filed on July 14, 1999, which claims priority from U.S. Provisional Patent Application No. 60/096,372, and U.S. Patent Application No. 09/455,492, filed on December 6, 1999, which claims priority from U.S. Provisional Patent Application No. 60/111,273

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

We acknowledge the duty to disclose all information known to us which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

We hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventors' certificate listed below and have also identified below any foreign application for patent or inventors' certificate having a filing date before that of the application on which priority is claimed:

None

We hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, we acknowledge the duty to disclose all information known to us to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

U.S. Patent Application No. 09/353,192, filed on July 14, 1999, which claims priority from U.S. Provisional Patent Application No. 60/096,372; and  
U.S. Patent Application No. 09/455,492, filed on December 6, 1999, which claims priority from U.S. Provisional Patent Application No. 60/111,273

DOCKET NO. 02685/5620

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Samuel H. Dworetsky	(Reg. No. 27873)
Thomas A. Restaino	(Reg. No. 33444)
Cedric G. DeLaCruz	(Reg. No. 36498)
Michele L. Conover	(Reg. No. 34962)
Rohini K. Garg	(Reg. No. 45272)
Benjamin S. Lee	(Reg. No. 42787)
Robert B. Levy	(Reg. No. 28234)
Susan E. McHale	(Reg. No. 35948)
Alfred G. Steinmetz	(Reg. No. 22971)

I hereby appoint the registered practitioners of KENYON & KENYON included in the Customer Number provided below to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

**Customer Number: 23838**

Please address all correspondence to Mr. Ronald E. Prass, Jr., Esq., Kenyon & Kenyon, Suite 700, 1500 K Street N.W., Washington, D.C. 20005. Telephone calls should be made to Mr. Prass at (202) 220-4207.

Full name of 1<sup>ST</sup> joint inventor: **DAVID CRAWFORD GIBBON**

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: **Lincroft, Monmouth County, New Jersey**

Citizenship: **U.S.A.**

Post Office Address: **107 Majestic South  
Lincroft, New Jersey 07738**

DOCKET NO. 02685/5620

Full name of 2<sup>ND</sup> joint inventor: QIAN HUANG

Inventor's signature Qian Huang Date 11/21/2000

Residence: Rockville, Montgomery County, Maryland

Citizenship: CHINA

Post Office Address: 1691 Yale Place  
Rockville, Maryland 20850

Full name of 3<sup>RD</sup> joint inventor: ZHU LIU

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: Middletown, Monmouth County, New Jersey

Citizenship: CHINA

Post Office Address: 809 Knollyood Drive  
Middletown, New Jersey 07748

Full name of 4<sup>TH</sup> joint inventor: AARON EDWARD ROSENBERG

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: Berkeley Heights, Union County, New Jersey

Citizenship: USA

Post Office Address: 252 Spring Ridge Drive  
Berkeley Heights, New Jersey 07922

Full name of 5<sup>TH</sup> joint inventor: BEHZAD SHAHRARAY

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: Freehold, Monmouth County, New Jersey

Citizenship: IRAN

Post Office Address: 194 Sherwood Drive  
Freehold, New Jersey 07728

IN THE UNITED STATES  
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Full name of 1<sup>ST</sup> joint inventor: DAVID CRAWFORD GIBBON

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: Lincroft, Monmouth County, New Jersey

Citizenship: U.S.A.

Post Office Address: 107 Majestic South  
Lincroft, New Jersey 07738

DOCKET NO. 02685/5620

Full name of 2<sup>ND</sup> joint inventor: QIAN HUANG

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: Rockville, Montgomery County, Maryland

Citizenship: CHINA

Post Office Address: 1691 Yale Place  
Rockville, Maryland 20850Full name of 3<sup>RD</sup> joint inventor: ZHU LIUInventor's signature Zhu Liu Date Nov. 20, 2000

Residence: Middletown, Monmouth County, New Jersey

Citizenship: CHINA

Post Office Address: 809 Knollwood Drive  
Middletown, New Jersey 07748Full name of 4<sup>TH</sup> joint inventor: AARON EDWARD ROSENBERG

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: Berkeley Heights, Union County, New Jersey

Citizenship: USA

Post Office Address: 252 Spring Ridge Drive  
Berkeley Heights, New Jersey 07922Full name of 5<sup>TH</sup> joint inventor: BEHZAD SHAHRARAY

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: Freehold, Monmouth County, New Jersey

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Post Office Address: 194 Sherwood Drive  
Freehold, New Jersey 07728



11334401P

DOCKET NO. 02685/5620

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Full name of 1<sup>ST</sup> joint inventor: **DAVID CRAWFORD GIBBON**

Inventor's signature David Crawford Gibbon Date 11/20/2000

Residence:

Lincroft, Monmouth County, New Jersey

Citizenship:

U.S.A.

Post Office Address:

107 Majestic South  
Lincroft, New Jersey 07738

MAUREEN KANE-SARA  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires 2004



DOCKET NO. 02685/5620

Full name of 2<sup>ND</sup> joint inventor: QIAN HUANG

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: Rockville, Montgomery County, Maryland

Citizenship: CHINA

Post Office Address: 1691 Yale Place  
Rockville, Maryland 20850Full name of 3<sup>RD</sup> joint inventor: ZHU LIU

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: Middletown, Monmouth County, New Jersey

Citizenship: CHINA

Post Office Address: 809 Knollwood Drive  
Middletown, New Jersey 07748Full name of 4<sup>TH</sup> joint inventor: AARON EDWARD ROSENBERGInventor's signature Aaron Edward Rosenberg Date 11/20/2000

Residence: Berkeley Heights, Union County, New Jersey

Citizenship: USA

Post Office Address: 252 Spring Ridge Drive  
Berkeley Heights, New Jersey 07922Full name of 5<sup>TH</sup> joint inventor: BEHZAD SHAHRARAYInventor's signature Behzad Shahraray Date 11/20/2000

Residence: Freehold, Monmouth County, New Jersey

Citizenship: IRAN

Post Office Address: 194 Sherwood Drive  
Freehold, New Jersey 07728MAUREEN KANE-SARA  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires 2004



**UNITED STATES DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

MAY 24, 2001

PTAS



\*101645371A\*

KENYON & KENYON  
RONALD E. PRASS, JR.  
1500 K STREET, N.W.  
SUITE 700  
WASHINGTON, DC 20005-1257

**UNITED STATES PATENT AND TRADEMARK OFFICE**  
**NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 11/21/2000

REEL/FRAME: 011598/0773  
NUMBER OF PAGES: 20

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

GIBBON, DAVID CRAWFORD

DOC DATE: 11/20/2000 ✓

ASSIGNOR:

HUANG, QIAN

DOC DATE: 11/21/2000 ✓

ASSIGNOR:

LIU, ZHU

DOC DATE: 11/20/2000 ✓

ASSIGNOR:

ROSENBERG, ARRON EDWARD

DOC DATE: 11/20/2000 ✓

ASSIGNOR:

SHAHRARAY, BEHZAD

DOC DATE: 11/20/2000 ✓

ASSIGNEE:

AT&T CORP.  
32 AVENUE OF THE AMERICAS  
NEW YORK, NEW YORK 10013-2412



011598/0773 PAGE 2

SERIAL NUMBER: 09716278  
PATENT NUMBER:

FILING DATE: 11/21/2000  
ISSUE DATE:

SAUNDRA BALLENGER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

## ASSIGNMENT AND AGREEMENT

For value received, we, David Crawford Gibbon, of Lincroft in the County of Monmouth and State of New Jersey, Qian Huang, of Rockville in the County of Montgomery and State of Maryland, Zhu Liu, of Middletown in the County of Monmouth and State of New Jersey, Aaron Edward Rosenberg, of Berkeley Heights in the County of Union and State of New Jersey, and Benzaad Shahraray, of Freehold in the County of Monmouth and State of New Jersey hereby sell, assign and transfer to AT&T Corp., a corporation of the State of New York, having an office at 32 Avenue of the Americas, New York, New York 10013-2412, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **SYSTEM AND METHOD FOR AUTOMATED MULTIMEDIA CONTENT INDEXING AND RETRIEVAL**, filed herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to AT&T Corp. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize AT&T Corp. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of AT&T Corp. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to AT&T Corp. in the United States and in all countries foreign to the United States, or to such nominees as AT&T Corp. may designate.

We agree that, when requested, we shall, without charge to AT&T Corp. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

DOCKET NO. 2685/5620

David Crawford Gibbon

Date: \_\_\_\_\_

United States of America

State of New Jersey

County of Monmouth

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came David Crawford Gibbon, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

DOCKET NO. 2685/5620

Qian Huang  
Qian Huang

Date: 11/21/2000

United States of America )

~~District of Columbia~~  
~~State of Maryland~~ )ss:

~~County of Montgomery~~ )

On this 21<sup>st</sup> day of November, 2000, before me personally came Qian Huang, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

[Signature]  
Notary Public  
12/17/01



DOCKET NO. 2685/5620

---

Zhu Liu

Date: \_\_\_\_\_

United States of America

State of New Jersey

County of Monmouth

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Zhu Liu, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

---

Notary Public

DOCKET NO. 2685/5620

Aaron Edward Rosenberg

Date: \_\_\_\_\_

United States of America

State of New Jersey

)ss:

County of Union

)

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Aaron Edward Rosenberg, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

DOCKET NO. 2685/5620

Behzad Shahraray

Date: \_\_\_\_\_

United States of America )

State of New Jersey )ss:

County of Monmouth )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Behzad Shahraray, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

DOCUMENT NO. 2685/5620

**ASSIGNMENT AND AGREEMENT**

For value received, we, David Crawford Gibbon, of Lincroft in the County of Monmouth and State of New Jersey, Qian Huang, of Rockville in the County of Montgomery and State of Maryland, Zhu Liu, of Middletown in the County of Monmouth and State of New Jersey, Aaron Edward Rosenberg, of Berkeley Heights in the County of Union and State of New Jersey and Behzad Shahraray, of Freehold in the County of Monmouth and State of New Jersey hereby sell, assign and transfer to AT&T Corp., a corporation of the State of New York, having an office at 32 Avenue of the Americas, New York, New York 10013-2412, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **SYSTEM AND METHOD FOR AUTOMATED MULTIMEDIA CONTENT INDEXING AND RETRIEVAL**, filed herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to AT&T Corp. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize AT&T Corp. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

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DOCKET NO. 2685/5620

\_\_\_\_\_  
David Crawford Gibbon

Date: \_\_\_\_\_

United States of America

State of New Jersey

County of Monmouth )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came David Crawford Gibbon, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

DOCUMENT NO. 2685/5620

---

Qian HuangDate: 

---

United States of America )

State of Maryland )ss.

County of Montgomery

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Qian Huang, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

---

Notary Public



DOCKET NO. 2685/5620

Zhu Liu  
Zhu Liu

Date: Nov. 20, 2000

United States of America )

State of New Jersey )ss:

County of Monmouth )

On this 20th day of November, 2000 before me personally came Zhu Liu, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Daniel E. Workman-Willard  
Notary Public

D. E. WORKMAN-WILLARD

MY COMMISSION EXPIRES  
05-27-2002

DOCKET NO. 2685/5620

Aaron Edward Rosenberg

Date: \_\_\_\_\_

United States of America )

State of New Jersey )ss:

County of Union )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally  
came Aaron Edward Rosenberg, to me known to be the individual described in and who  
executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

DOCUMENT NO. 2685/5620

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Behzad Shahraray

Date: \_\_\_\_\_

United States of America )

State of New Jersey )ss:

County of Monmouth )

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Notary Public

113344CIP

DOCKET NO. 2685/5620

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Date: 11/20/2000

United States of America

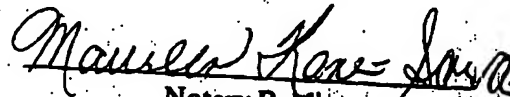
State of New Jersey

County of Monmouth

  
David Crawford Gibbon

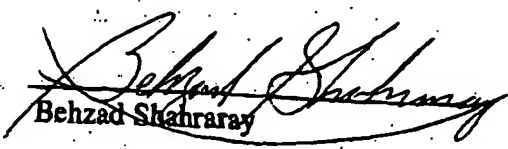
)ss:

On this 20<sup>th</sup> day of November, 2000, before me personally came David Crawford Gibbon, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
Notary Public

MAUREEN KANE-SARA  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires 2004

DOCKET NO. 2685/5620

  
Behzad Shahraray

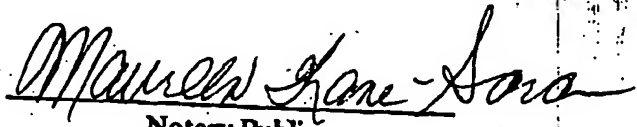
Date: 11/20/2000

United States of America )

State of New Jersey )

County of Monmouth )

On this 20<sup>th</sup> day of November, 2000, before me personally came Behzad Shahraray, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
Notary Public

MAUREEN KANE-SARA  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires 2004



DOCKET NO. 2685/5620

\_\_\_\_\_  
Qian Huang

Date: \_\_\_\_\_

United States of America )

State of Maryland )ss:

County of Montgomery )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Qian Huang, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

DOCKET NO. 2685/5620

Zhu Liu

Date: \_\_\_\_\_

United States of America )

State of New Jersey )ss:

County of Monmouth )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Zhu Liu, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

DOCKET NO. 2685/5620

Date: 11/20/2000

United States of America

State of New Jersey

County of Union

Aaron Edward Rosenberg  
Aaron Edward Rosenberg

)ss:

)

On this 20<sup>th</sup> day of November, 2000 before me personally came Aaron Edward Rosenberg, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Maureen Kane-Sara  
Notary Public

MAUREEN KANE-SARA  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires 2004

